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--ABSTRACT OF THE DISCLOSURE

This invention relates to a device for producing lines or groups of lines of electromagnetic radiation of the optical spectral range in a definable area of space. The lines or groups of lines can be used as positioning aids or geometry detection aids, and they include at least one conversion unit which is at least partially transparent to the electromagnetic radiation used, and which can convert the electromagnetic radiation passing through it, especially coherent radiation or laser radiation, such that the electromagnetic radiation forms at least one line or group of lines in a given three-dimensional area.--